

We claim:

1. A mixture comprising at least one radiation-curable
5 composition (I) and at least one pressure-sensitive adhesive (II).
2. A mixture as claimed in claim 1, comprising as adhesive (II)
at least one acrylic adhesive.
- 10 3. A mixture as claimed in claim 1 or 2, wherein the adhesive has a glass transition temperature T_g of between -60 and -10°C .
- 15 4. A mixture as claimed in any of claims 1 to 3, comprising as adhesive (II) an adhesive composition which can be crosslinked by means of active radiant energy.
- 20 5. A mixture as claimed in claim 4, wherein the adhesive composition which can be crosslinked by means of active irradiation of energy has a glass transition temperature T_g of between -60 and $+10^\circ\text{C}$.
- 25 6. A mixture as claimed in claim 4 or 5, wherein the adhesive composition which can be crosslinked by means of active irradiation of energy has a molar weight of between 200 000 and 1 500 000 g/mol.
- 30 7. A mixture as claimed in any of claims 1 to 6, wherein the radiation-curable composition (I) comprises
 - (A) at least one polymerizable compound containing two or more copolymerizable, ethylenically unsaturated groups,
 - 35 (B) if desired, reactive diluents,
 - (C) if desired, photoinitiator, and
 - (D) if desired, further, typical coatings additives.
- 40 8. A mixture as claimed in claim 7, wherein the radiation-curable composition (I) comprises
 - 40 - 100% by weight of at least one polymerizable compound
 - 45 containing two or more copolymerizable, ethylenically unsaturated groups (A),

- 0 - 60% by weight of reactive diluents (B),
- 0 - 20% by weight of photoinitiator (C), and
- 5 0 - 50% by weight of further, typical coatings additives (D)
- with the proviso that (A), (B), (C) and (D) together make up 100% by weight.
- 10 9. A mixture as claimed in claim 7 or 8, comprising compounds (A) comprising carbonate or urethane (meth)acrylates or carbonate or urethane vinyl ethers.
- 15 10. A mixture as claimed in any of claims 7 to 9, comprising at least one polymer-analogously modified copolymer as compound (A).
11. A mixture as claimed in any of claims 1 to 10, comprising
- 20 90 - 99.9% by weight of radiation-curable composition (I) and 0.1 - 10% by weight of pressure sensitive adhesive (II).
- 25 12. A method of coating a substrate which comprises using a coating material comprising a mixture as claimed in any of claims 1 to 11.
- 30 13. A method as claimed in claim 12, wherein following application to the substrate the coating material is first dried, where appropriate, and then
- either is first thermally treated and then cured with active radiant energy,
- 35 or is first cured with active radiant energy and then thermally treated.
- 40 14. A method as claimed in claim 13, wherein said active radiant energy is light of wavelength $\lambda=150$ to 700 nm.
15. A method as claimed in claim 13 or 14, wherein the thermal treatment is conducted at between 40 and 120°C.
- 45 16. The use of a coating material comprising a mixture as claimed in any of claims 1 to 11 for coating a substrate.

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17. The use as claimed in claim 16 or method as claimed in any of claims 12 to 15, wherein said substrate is plastic, glass or metal.

5 18. The use as claimed in claim 16 or 17 or method as claimed in any of claims 12 to 15, wherein said substrate is metal foil and/or plastic film or a composite of metal foil and plastic film.

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